

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

**NAME:** US Department of Interior Bureau of Reclamation  
**ADDRESS:** 826 E FRONT STREET, SUITE A  
PORT ANGELES, WA. 98362-3613  
**FACILITY:** ELWHA WATER TREATMENT PLANT  
**LOCATION:** Elwha River/ Lat: 48°10'10"N./Long:123°33'7"W  
**ATTN:** DAVID F ADKINS, USBR CIVIL ENG

WA-0026662

PERMIT NUMBER


\*001 A

DISCHARGE NUMBER

Minor (SUBR SW) F-Final  
Slurry Discharge Effluent  
Sedimentation Plant  
(non-wastewater)

MONITORING PERIOD							
From	Year	Mo	Day	To	Year	Mo	Day
	2013	7	1		2013	7	31



PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS				
Water Temperature Effluent 00010 1 0 0	Sample Measurement	*****	*****		*****	11.3	12.7	Deg. C	0	Daily	Grab	
	Permit Requirement	*****	*****		*****	Report	Report		*****	5/Week	Grab	
Water Temperature Influent 00010 7 0 0	Sample Measurement	*****	*****		*****	11.8	15.3	Deg. C	0	Daily	Grab	
	Permit Requirement	*****	*****		*****	Report	Report		*****	5/Week	Grab	
Flow Rate Effluent 00056 1 0 0	Sample Measurement	14.1	15.7	CFS	*****	*****	*****		0	Continous	Recording	
	Permit Requirement	Report	Report		*****	*****	*****		*****	Continous	Recording	
Flow Rate Influent 00056 7 0 0	Sample Measurement	45.2	51.3	CFS	*****	*****	*****		0	Continous	Recording	
	Permit Requirement	Report	Report		*****	*****	*****		*****	Continous	Recording	
Turbidity Influent 00070 7 0 0	Sample Measurement	*****	*****		*****	327.8	1847.0	NTU	0	Continous	Recording	
	Permit Requirement	*****	*****		*****	Report	Report		*****	Continous	Recording	
Total Suspended Solids Daily Average Influent Turbidity > 50 NTU Influent 00150 P 0 0 See Comments Below	Sample Measurement	104,550	495,286	Lb/Day	*****	439.8	2045.0	mg/L	0	Daily	24-Hr Composite	
	Permit Requirement	Report	See I.B.3 & I.B.4		*****	Report	Report		*****	Daily	24-Hr Composite	
Dissolved Oxygen Influent 00300 7 0 0	Sample Measurement	*****	*****		*****	12.9	13.4	mg/L	0	Daily	Grab	
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	Grab	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Tom Hubbard		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.						TELEPHONE		DATE		
TYPED OR PRINTED								503	582-9655	2013	7	5
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				Area Code		Number	Year	Mo	Day	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 0 = Daily Avg. Influent From River Turbidity >50 NTU: P = Daily Avg. From River Turbidity <50

3 CFS  
8/12/13 R

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)



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**LOCATION:** Elwha River/ Lat: 48°10'10"N./Long: 123°33'7"W  
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PERMIT NUMBER

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MONITORING PERIOD									
From	Year	Mo	Day		To	Year	Mo	Day	
	2013	7	1			2013	7	31	

Sedimentation Plant  
(non-wastewater)

PARAMETER		QUANTITY OR LOADING			Minimum	QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average Monthly	Maximum Daily	UNITS		Average Monthly	Maximum Daily	UNITS			
BOD, 5-Day Effluent 00310 1 0 0	Sample Measurement	*****	*****		*****	1.0	1.0	mg/L	0	1/ Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/ Month	24- Hr Composite
PH Effluent 00400 1 0 0	Sample Measurement	*****	*****		*****	7.6	7.8	SU	0	Daily	Grab
	Permit Requirement	*****	*****		*****	6.5 - 8.5	8.5		*****	5/Week	Grab
PH Influent 00400 7 0 0	Sample Measurement	*****	*****		*****	7.6	7.8	SU	0	Daily	Grab
	Permit Requirement	*****	*****		*****	6.5 - 8.5	8.5		*****	5/Week	Grab
Total Alkalinity (As CaCO3) Effluent 00410 1 0 0	Sample Measurement	*****	*****		*****	37.9	45.0	mg/L as CaCO <sub>3</sub>	0	Daily	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Comp
Total Solids Suspended Effluent 00530 0 0 0 Daily Average Influent Turbidity > 50 NTU See Comments Below	Sample Measurement	90,831	411,283		*****	1,181.9	5,510.0	mg/L	0	Daily	24-Hr Comp
	Permit Requirement	472,864	3,205,489	Lb/Day	*****	Report	Report		*****	Daily	24- Hr Composite
Total Suspended Solids Effluent 00530 P 0 0 Daily Average Influent Turbidity < 50 NTU See Comments Below	Sample Measurement	18.26	24.86	#/CFS River	*****	216.33	300.00	mg/L	1	Day of Discharge	Comp
	Permit Requirement	Report	22		*****	Report	Report		*****	Daily	24- Hr Composite
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Tom Hubbard	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE	
TYPED OR PRINTED								503	582-9655	2013	7 5
						AREA Code	NUMBER	Year	Mo	Day	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 0 = Daily Avg. Influent From River Turbidity >50 NTU; P = Daily Avg. From River Turbidity <50

Total Suspended Solids Effluent 00530 P 0 0 Daily Average Influent Turbidity < 50 NTU: Decreasing river flows and drop in turbidity resulted in 2.86 pounds per river CFS more than allowed. Operations staff do not have the ability to control the river flows or the amount of TSS discharged when the river turbidity fluctuates from above 50 NTU to below 50 NTU.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved

OMB No. 2040-0004

RECEIVED

AUG - 9 2013

U.S. EPA REGION 10  
OFFICE OF COMPLIANCE AND ENFORCEMENT

PERMITTEE NAME/ADDRESS

**NAME:** US Department of Interior Bureau of Reclamation  
**ADDRESS:** 826 E FRONT STREET, SUITE A  
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From	Year	Mo	Day	To	Year	Mo	Day
	2013	7	1		2013	7	31

Sedimentation Plant  
(non-wastewater)

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS			
Total Suspended Solids Influent 00530 7 0 0 Daily Average Influent Turbidity < 50 NTU See Comments Below	Sample Measurement	26.79	33.56	Lb/CFS River	*****	95.67	118.00	mg/L	0	Day of Discharge	Comp
	Permit Requirement	Report	Report		*****	Report	Report		*****	Daily	24-Hr Composite
Settleable Solids Effluent 00545 1 0 0	Sample Measurement	*****	*****		*****	0.8	0.8	ml/L	0	1/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
Settleable Solids Influent 00545 7 0 0	Sample Measurement	*****	*****		*****	0.2	0.2	ml/L	0	1/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
Aluminum, Total (As AL) Effluent 01105 1 0 0	Sample Measurement	31.1	963.9	lb/Day	*****	13	13	mg/L	0	1/Month	Comp
	Permit Requirement	Report	Report		*****	Report	Report		*****	1/Month	24-Hr Composite
Aluminum, Total (As AL) Influent 01105 7 0 0	Sample Measurement	39.7	1230.2	lb/Day	*****	5.0	5.0	mg/L	0	1/Month	Comp
	Permit Requirement	Report	Report		*****	Report	Report		*****	1/Month	24-Hr Composite
Fecal Coliform Effluent 31625 1 0 0	Sample Measurement	*****	*****		*****	10	10	#/100 ML	0	10/ Month	Grab
	Permit Requirement	*****	*****		*****	Report	Report		*****	10/ Month	Grab
Fecal Coliform Influent 31625 7 0 0	Sample Measurement	*****	*****		*****	3	3	#/100 ML	0	10/ Month	Grab
	Permit Requirement	*****	*****		*****	Report	Report		*****	10/ Month	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom Hubbard

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503

582-9655

AREA Code

NUMBER

DATE

2013

7

5

Year

Mo

Day

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 0 = Daily Avg. Influent From River Turbidity >50 NTU; P = Daily Avg. From River Turbidity <50

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-9984



PERMITTEE NAME/ADDRESS


**NAME:** US Department of Interior Bureau of Reclamation  
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MONITORING PERIOD								
From	Year	Mo	Day	To	Year	Mo	Day	
	2013	7	1		2013	7	31	

Sedimentation Plant  
(non-wastewater)

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average Monthly	Maximum Daily	UNITS	Minimum	Average Monthly	Maximum Daily	UNITS			
Total Dissolved Solids Effluent 70295 1 0 0	Sample Measurement	*****	*****		*****	60.0	60.0	mg/L	0	4/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
Total Dissolved Solids Influent 70295 7 0 0	Sample Measurement	*****	*****		*****	60.0	60.0	mg/L	0	4/Month	Comp
	Permit Requirement	*****	*****		*****	Report	Report		*****	1/Month	24-Hr Composite
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TYPED OR PRINTED								503	582-9655	2013	7 5
								AREA Code	NUMBER	Year	Mo Day

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**ELWHA NPDES REPORTING - SLURRY DISCHARGE - WA-002666-2**

Jul-13

**INFLUENT TURBIDITY LESS THAN 50 NTU**

Day	Influent Turbidity - 13	Flow, Daily, Influent 3000		flow/daily, at outfall 3078	flow/daily at outfall cal	River Flow, 1	TSS Influent, 8	TSS Influent Mass_Calc	TSS Effluent 5002	TSS Effluent Mass_Calc	TSS Influent CFS River calc	TSS Effluent CFS River calc
	NTU	MGD	CFS	MGD	CFS	CFS	mg/L	Lbs/Day	mg/L	Lbs/Day	Lbs/CFS	Lbs/CFS
7/29/2012	42.70	31.0	48.0	9.36	14.48	942	101	26,121	300	23,419	27.7	24.86
7/30/2012	43.90	31.8	49.2	9.60	14.85	933	118	31,309	207	16,573	33.6	17.76
7/31/2012	44.00	31.2	48.3	9.53	14.75	929	68	17,716	142	11,286	19.1	12.15
<b>DAILY MAX</b>	44.00	31.81	49.23	9.60	14.85	942.00	118.00	31308.79	300.00	23418.72	33.56	24.86
<b>AVERAGE</b>	43.53	31.35	48.52	9.50	14.69	934.67	95.67	25048.48	216.33	17092.72	26.79	18.26

Note:

ELWHA\_July 2013 - WA-002666-2

**INFLUENT TURBIDITY ABOVE 50 NTU**

Day	Influent Turbidity - 13	Flow, Daily, Influent 3000		flow/daily, at outfall 3078	flow/daily at outfall cal	River Flow, 1	TSS Influent, 8	TSS Influent Mass_Calc	TSS Effluent 5002	TSS Effluent Mass_Calc	Mass NTE Limit_calc
	NTU	MGD	CFS	MGD	CFS	CFS	mg/L	Lbs/Day	mg/L	Lbs/Day	lbs/day
7/1/2013	1,701.0	29.04	44.93	9.33	14.44	2745	2045	495,286	3755.0	292,185	3,205,489
7/2/2013	1,847.0	27.39	42.38	8.95	13.85	2630	1760	402,027	5510.0	411,283	2,643,356
7/3/2013	1,205.0	30.00	46.42	10.02	15.50	2045	1170	292,705	3575.0	298,751	1,399,057
7/4/2013	1,009.0	27.31	42.25	9.63	14.90	1750	1057.5	240,835	2480.0	199,179	1,092,308
7/5/2013	761.0	28.04	43.38	9.85	15.24	1545	855	199,909	2272.5	186,684	790,211
7/6/2013	452.0	27.82	43.05	9.64	14.92	1475	675	156,607	1375.0	110,547	597,042
7/7/2013	402.0	28.57	44.20	9.89	15.30	1420	560	133,424	1355.0	111,764	479,970
7/8/2013	284.0	29.29	45.33	10.13	15.67	1,430	388	94,790	1038.0	87,695	335,496
7/9/2013	255.0	27.75	42.94	9.52	14.73	1,380	452	104,612	1086.0	86,225	376,114
7/10/2013	289.0	27.47	42.50	9.63	14.90	1,365	410	93,917	926.0	74,371	338,256
7/11/2013	190.0	28.50	44.10	9.89	15.30	1,220	266	63,223	646.0	53,284	199,258
7/12/2013	159.0	26.93	41.67	8.36	12.94	1,023	204	45,821	542.0	37,790	128,263
7/13/2013	123.0	26.47	40.96	8.36	12.94	914	304	67,111	1086.0	75,719	173,244
7/14/2013	121.0	26.68	41.29	8.34	12.90	882	188	41,837	701.0	48,758	103,855
7/15/2013	106.0	23.39	36.20	6.22	9.62	1,205	120	23,412	924.0	47,932	84,898
7/16/2013	112.0	23.91	36.99	5.97	9.24	1,185	146	29,108	912.0	45,408	101,383
7/17/2013	104.0	31.26	48.37	9.30	14.39	1,235	198	51,622	1074.0	83,302	148,857
7/18/2013	106.0	29.63	45.85	9.37	14.50	1,250	180	44,482	612.0	47,825	136,897
7/19/2013	107.0	30.69	47.49	9.08	14.05	1,210	170	43,517	338.0	25,596	125,170
7/20/2013	83.0	30.22	46.77	8.98	13.90	1,170	142	35,792	340.0	25,464	101,357
7/21/2013	98.9	30.86	47.75	9.13	14.13	1,137	180	46,326	356.0	27,107	125,519
7/22/2013	118.0	30.70	47.50	8.74	13.52	1,128	138	35,333	358.0	26,095	95,070
7/23/2013	72.8	32.99	51.05	9.15	14.16	1,085	174	47,875	381.0	29,074	116,481
7/24/2013	86.4	29.50	45.65	8.89	13.76	1,080	170	41,827	350.0	25,950	112,941
7/25/2013	67.4	31.08	48.08	8.84	13.68	1,060	98	25,398	364.0	26,836	64,004
7/26/2013	57.3	31.37	48.55	9.31	14.41	1,032	86	22,503	218.0	16,927	55,236
7/27/2013	52.6	31.87	49.31	9.66	14.95	1,001	104	27,643	232.0	18,691	65,388
7/28/2013	60.4	33.16	51.31	9.57	14.81	966	74	20,463	286.0	22,827	45,067
<b>DAILY MAX</b>	1,847.0	33.2	51.3	10.1	15.7	2,745.0	2,045.0	495,285.9	5,510.0	411,282.9	3,205,488.9
<b>AVERAGE</b>	358.2	29.0	44.9	9.1	14.0	1,341.7	439.8	104,550.2	1,181.9	90,831.0	472,863.7



August 6, 2013

US EPA Region 10  
Director, Office of Compliance & Enforcement  
1200 Sixth Avenue, OCE-133  
Seattle, Washington 98101

**RE: NPDES # WA-002666-2, MONTHLY REPORT – July, 2013 - ELWHA  
WATER TREATMENT PLANT**

Attn: PCS Data Entry Team

Enclosed is the monthly Discharge Monitoring Report (DMR) for the Elwha Water Treatment Plant (Port Angeles, WA), for the month of July, 2013. The report is being submitted by Veolia Water North America (VWNA) Operating Services on behalf of the US Department of Interior, Bureau of Reclamation. A copy has been submitted to the Washington DOE.

On August 6th 2013 a notification was made to the NPDES Compliance Hotline for exceeding the TSS of sediment by 2.86 Lbs/CFS of river flow. Furthermore, contact by email and phone (left voice mail) was also made to Mr. Brian Nickel of EPA about the situation.

The exceedance occurred when river turbidity (NTU) decreased below 50 NTU which requires a different reporting calculation. As shown in the attached tabulated data you will find the monthly average discharge to be 18.26 and daily max of 24.86 Lbs/ CFS river flow respectively, the limit for the max daily is 22 Lbs/ CFS river flow.

Operators are finding that when the turbidity changes from >50 to <50 NTU and the river CFS decreases, the sediment discharge will lag. This lag of sediment entered into the plant days prior to being discharged and then calculated using the lower river CFS which causes the effluent limit to be exceeded. At this time the operators are continuously running discharge pumps to minimize accumulation of sediment in the clarifiers.

Please contact me if you have any questions or comments regarding the enclosed report.



Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Hubbard'.

Tom Hubbard  
Project Manager

CC: Tracy Gilchrist, NPS

Enclosures:

- DMR, July, 2013; EPA Form 3320-1 (4 pages)
- Table of values & mass limits for turbidity over and under 50 NTU